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CENTRAL INTELLIGENCE AGENCY  
**INFORMATION REPORT**COUNTRY **China**

REPORT NO. [REDACTED]

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SUBJECT **Shanghai: Location of Shanghai Power Company Sub-  
Stations/Transmission and Distribution Cables in  
Operation/Route Length of Overhead Lines in Operation**

PLACE ACQUIRED [REDACTED]

DATE ACQUIRED [REDACTED]

DATE (OF INFO. [REDACTED])

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Location of Substations  
and source of supply22000 Volt Distribution

**Yangchow Substation** - Two miles west of the generating plant  
supplied by two .2 sq inch and  
three .15 sq in 22,000 volt cables

**Fraron Road Substation** - Two miles west of Yangchow. Supplied  
by six .15 sq inch and two .2 sq inch  
cables from Riverside

**Connaught Road Sub-  
station** - Three miles west of Fearon Road.  
Supplied by three .2 sq inch cables  
from Riverside.

**Tonquin Substation** - One mile due north of Connaught Substation.  
Supplied by five .2 sq inch and two .15 sq  
inch cables from Riverside and two .15 sq  
inch cables from Fearon Road.

**Robison Substation** - About 1 1/2 miles from both Connaught and  
Tonquin Substations, being located at the  
third point of an equilateral triangle  
joining the three substations. Thus it is  
located about one mile farther west than  
Tonquin and Connaught.  
Supplied by three .2 sq inch cables from  
Riverside and two .2 sq inch cables from  
Tonquin.

**Brennan Substation** - Located two miles west of Robison, outside  
the Settlement limits.  
Supplied by two .15 sq inch cables from  
Robison.

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Both Yangchow and Connaught Substations are fed directly from Riverside Plant without any 22 kv interconnection with the other substations on the system. Fearon Road, Tonquin and Robison are interconnected by tie feeders and Breuners is supplied radially from Robison. However, the 22,000 volt busses at Fearon, Tonquin and Robison are not interconnected for operating purposes.

6000 Volt Distribution

It is the custom to supply a minor switching point from a major supply substation and to regulate all or part of the substation bus supplying the regulated feeders. Except for outlying sections each of these 6600 volt substations is supplied by a separate feeder.

Transmission and Distribution Cables in Operation (Miles)

System Voltage	At end of 1938	Net Increase for 1939	At end of 1939		Distribution only
			sub-Totals	Grand Total (A + B )	
		<u>Miles</u>			
23,000	In Operation (A)	240.0604	5.3143	245.3747	
	Not in Operation (B)	0.7150	-	0.7150	
6,600	In Operation (A)	182.2807	5.5596	182.8403	241.1425
	Not in Operation (B)	8.0585	.0219	8.0804	
380	In Operation (A)	48.2991	.1409	48.4400	
	Not in Operation (B)	1.7693	.0125	1.7818	
Total Length of Power Cables		481.1830	6.0492	487.2322	487.2322
Telephone and Pilot	In Operation (A)	155.6835	5.4981	161.1816	164.2320
	Not in Operation (B)	3.0504	-	3.0504	

Cables "not in operation" are pot ended buried cables.

Underground Cables In OperationVoltage, Type, Size and Length (Miles)

System voltage	Type of Cable	Armour	Size Sq Inch	Length (Miles)
23,000	Belted, solid	P I L C & D B T	.1	0.10
"	" , split	"	.15	70.01
"	"	"	.20	71.44
"	H S L, solid	P I L C & S W A	.1	0.75

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System voltage	Type of Cable	Armour	Size Sq Inch	Length (Miles)
23,000	H S L, solid	P I L C & S W A	.2	61.28
"	" split	"	.2	24.05
"	H solid	P I L C	.2	3.90
"	H solid	P I L C & D S T	.2	2.54
"	H solid	"	.4	9.24
"	H solid	P I L C	.4	2.35
"	Miscellaneous	-	-	0.43 246.09
6,000	Belted, solid	P I L C & D S T	.025	30.70
"	"	"	.05	1.94
"	"	"	.06	1.47
"	"	"	.1	20.19
"	"	"	.15	43.07
"	"	"	.2	34.04
"	"	"	.2	23.87
"	"	"	.3	31.46
"	Miscellaneous	-	-	4.18 190.92
380	Belted, solid	P I L C & D S T	.0084	3.06
"	"	P I L C	.0084	2.76
"	"	P I L C & D S T	.028	1.81
"	"	"	.05	1.15
"	"	"	.075	1.92
"	"	"	.15	0.67
"	"	"	.25	6.41
"	"	"	.3	4.21
"	"	P I L C & D S T	.4	27.67
"	Miscellaneous	-	-	0.86 50.22
Pilot	Belted, solid	-	.0045	13.25
"	"	-	.0084	88.74
"	"	-	(6 pair x .0084)	10.06
			(4 pair	112.05

Route Length of Overhead Lines in OperationMiles

	In Operation at end of 1938	Erected During 1939	Dismantled During 1939	Net Increase in 1939	Lines in Operation at end of 1939
6,600 volt feeders and distributors	19.1767	3.5751	0.3153	3.2598	22.4365
386/220-v Road Mains	127.2232	2.2793	0.9508	1.3285	128.5517)
380/220v-Alleyway mains	351.8638	14.0941	6.6360	7.4581	359.3219)
Total Distribution Lines	498.2637	19.9485	7.9021	12.0464	510.3101
Street Lighting	560.3354	15.8147	6.7547	9.0600	569.3954
D C Circuits	5.8541	-	-	-	5.8541
Auto Telephone	0.9711	0.0352	-	0.0352	1.0063

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